

PROPOSED

Issuance Date

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
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13-xxxE CAB
File No. 0239-01

Mr. Dan V. Giovanni
Manager
Generation Department
Hawaiian Electric Company, Inc.
P. O. Box 2750
Honolulu, Hawaii 96840-0001

Dear Mr. Giovanni:

Subject: Covered Source Permit (CSP) No. 0239-01-C
Application for Renewal No. 0239-03
Hawaiian Electric Company, Inc. (HECO)
Waiau Generating Station
Six (6) Boilers and Two (2) Combustion Turbines
Located at: Pearl City, Oahu
UTM: Zone 4, 607, 337m E; 2,365,837m N (Old Hawaiian)
Date of Expiration: Issuance Date + 5 years

The subject Covered Source Permit is issued in accordance with Hawaii Administrative Rules, Title 11, Chapter 60.1. The issuance of this permit is based on the application dated August 13, 2010 and additional information dated December 21, 2012 and February 13, 2013. A check for \$3,000.00 has been processed for renewal of a major covered source permit application. This permit supersedes Covered Source Permit No. 0239-01-C issued August 15, 2006 in its entirety.

The Covered Source Permit is issued subject to the conditions/requirements set forth in the following Attachments:

Attachment I: Standard Conditions
Attachment IIA: Special Conditions for the Boilers
Attachment IIB: Special Conditions for the Combustion Turbines
Attachment II – INSIG: Special Conditions - Insignificant Activities
Attachment III: Annual Fee Requirements
Attachment IV: Annual Emissions Reporting Requirements

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Mr. Dan V. Giovanni
Issuance Date
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The following forms are enclosed for your use and submittal as required:

Compliance Certification Form
Monitoring Report Form: Opacity Exceedances
Monitoring Report Form: Fuel Certification
Monitoring Report Form: Specification Used Oil
Monitoring Report Form: Combustion Turbines
Annual Emissions Report Form: Boilers and Combustion Turbines

The following are enclosed for your use in monitoring visible emissions:

Visible Emissions Form Requirements, State of Hawaii
Visible Emissions Form

This permit: (a) shall not in any manner affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment; and (c) in no manner implies or suggests that the Hawaii Department of Health, or its officers, agents, or employees, assumes any liability, directly or indirectly, for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment.

Sincerely,

STUART YAMADA, P.E., CHIEF
Environmental Management Division

DL:nn
Enclosures

c: CAB Monitoring Section

**ATTACHMENT I: STANDARD CONDITIONS
COVERED SOURCE PERMIT NO. 0239-01-C**

Issuance Date:

Expiration Date:

This permit is granted in accordance with the Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1, Air Pollution Control, and is subject to the following standard conditions:

1. Unless specifically identified, the terms and conditions contained in this permit are consistent with the applicable requirement, including form, on which each term or condition is based.

(Auth.: HAR §11-60.1-90)
2. This permit, or a copy thereof, shall be maintained at or near the source and shall be made available for inspection upon request. The permit shall not be willfully defaced, altered, forged, counterfeited, or falsified.

(Auth.: HAR §11-60.1-6; SIP §11-60-11)²
3. This permit is not transferable whether by operation of law or otherwise, from person to person, from place to place, or from one piece of equipment to another without the approval of the Department of Health, except as provided in HAR, Section 11-60.1-91.

(Auth.: HAR §11-60.1-7; SIP §11-60-9)²
4. A request for transfer from person to person shall be made on forms furnished by the Department of Health.

(Auth.: HAR §11-60.1-7)
5. In the event of any changes in control or ownership of the facilities to be constructed or modified, this permit shall be binding on all subsequent owners and operators. The permittee shall notify the succeeding owner and operator of the existence of this permit and its conditions by letter, copies of which will be forwarded to the Department of Health and the U.S. Environmental Protection Agency (EPA), Region 9.

(Auth.: HAR §11-60.1-5, §11-60.1-7, §11-60.1-94)
6. The facility covered by this permit shall be constructed and operated in accordance with the application, and any information submitted as part of the application, for the Covered Source Permit. There shall be no deviation unless additional or revised plans are submitted to and approved by the Department of Health, and the permit is amended to allow such deviation.

(Auth.: HAR §11-60.1-2, §11-60.1-4, §11-60.1-82, §11-60.1-84, §11-60.1-90)

7. This permit (a) does not release the permittee from compliance with other applicable statutes of the State of Hawaii, or with applicable local laws, regulations, or ordinances, and (b) shall not constitute, nor be construed to be an approval of the design of the covered source.

(Auth.: HAR §11-60.1-5, §11-60.1-82)

8. The permittee shall comply with all the terms and conditions of this permit. Any permit noncompliance constitutes a violation of HAR, Chapter 11-60.1 and the Clean Air Act and is grounds for enforcement action; for permit termination, suspension, reopening, or amendment; or for denial of a permit renewal application.

(Auth.: HAR §11-60.1-3, §11-60.1-10, §11-60.1-19, §11-60.1-90)

9. If any term or condition of this permit becomes invalid as a result of a challenge to a portion of this permit, the other terms and conditions of this permit shall not be affected and shall remain valid.

(Auth.: HAR §11-60.1-90)

10. The permittee shall not use as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the terms and conditions of this permit.

(Auth.: HAR §11-60.1-90)

11. This permit may be terminated, suspended, reopened, or amended for cause pursuant to HAR, Sections 11-60.1-10 and 11-60.1-98, and Hawaii Revised Statutes (HRS), Chapter 342B-27, after affording the permittee an opportunity for a hearing in accordance with HRS, Chapter 91.

(Auth.: HAR §11-60.1-3, §11-60.1-10, §11-60.1-90, §11-60.1-98)

12. The filing of a request by the permittee for the termination, suspension, reopening, or amendment of this permit, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

(Auth.: HAR §11-60.1-90)

13. This permit does not convey any property rights of any sort, or any exclusive privilege.

(Auth.: HAR §11-60.1-90)

14. The permittee shall notify the Department of Health and U.S. EPA, Region 9, in writing of the following dates:

- a. The **anticipated date of initial start-up** for each emission unit of a new source or significant modification not more than sixty (60) days or less than thirty (30) days prior to such date;
- b. The **actual date of construction commencement** within fifteen (15) days after such date; and
- c. The **actual date of start-up** within fifteen (15) days after such date.

(Auth.: HAR §11-60.1-90)

15. The permittee shall furnish, in a timely manner, any information or records requested in writing by the Department of Health to determine whether cause exists for terminating, suspending, reopening, or amending this permit, or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Department of Health copies of records required to be kept by the permittee. For information claimed to be confidential, the Director of Health may require the permittee to furnish such records not only to the Department of Health but also directly to the U.S. EPA, Region 9, along with a claim of confidentiality.

(Auth.: HAR §11-60.1-14, §11-60.1-90)

16. The permittee shall notify the Department of Health in writing, of the **intent to shut down air pollution control equipment for necessary scheduled maintenance** at least twenty-four (24) hours prior to the planned shutdown. The submittal of this notice shall not be a defense to an enforcement action. The notice shall include the following:
 - a. Identification of the specific equipment to be taken out of service, as well as its location and permit number;
 - b. The expected length of time that the air pollution control equipment will be out of service;
 - c. The nature and quantity of emissions of air pollutants likely to be emitted during the shutdown period;
 - d. Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; and
 - e. The reasons why it would be impossible or impractical to shut down the source operation during the maintenance period.

(Auth.: HAR §11-60.1-15; SIP §11-60-16)²

17. **Except for emergencies which result in noncompliance with any technology-based emission limitation in accordance with HAR, Section 11-60.1-16.5, in the event any emission unit, air pollution control equipment, or related equipment malfunctions, or breaks down in such a manner as to cause the emission of air pollutants in violation of HAR, Chapter 11-60.1 or this permit**, the permittee shall immediately notify the Department of Health of the malfunction or breakdown, unless the protection of personnel or public health or safety demands immediate attention to the malfunction or breakdown and makes such notification infeasible. In the latter case, the notice shall be provided as soon

as practicable. Within five (5) working days of this initial notification, the permittee shall also submit, in writing, the following information:

- a. Identification of each affected emission point and each emission limit exceeded;
- b. Magnitude of each excess emission;
- c. Time and duration of each excess emission;
- d. Identity of the process or control equipment causing the excess emission;
- e. Cause and nature of each excess emission;
- f. Description of the steps taken to remedy the situation, prevent a recurrence, limit the excessive emissions, and assure that the malfunction or breakdown does not interfere with the attainment and maintenance of the National Ambient Air Quality Standards and state ambient air quality standards;
- g. Documentation that the equipment or process was at all times maintained and operated in a manner consistent with good practice for minimizing emissions; and
- h. A statement that the excess emissions are not part of a recurring pattern indicative of inadequate design, operation, or maintenance.

The submittal of these notices shall not be a defense to an enforcement action.

(Auth.: HAR §11-60.1-16; SIP §11-60-16)²

18. The permittee may request confidential treatment of any records in accordance with HAR, Section 11-60.1-14.

(Auth.: HAR §11-60.1-14, §11-60.1-90)

19. This permit shall become invalid with respect to the authorized construction if construction is not commenced as follows:

- a. Within eighteen (18) months after the permit takes effect, is discontinued for a period of eighteen (18) months or more, or is not completed within a reasonable time.
- b. For phased construction projects, each phase shall commence construction within eighteen (18) months of the projected and approved commencement dates in the permit. This provision shall be applicable only if the projected and approved commencement dates of each construction phase are defined in Attachment II, Special Conditions, of this permit.

(Auth.: HAR §11-60.1-9, §11-60.1-90)

20. The Department of Health may extend the time periods specified in Standard Condition No. 19 upon a satisfactory showing that an extension is justified. Requests for an extension shall be submitted in writing to the Department of Health.

(Auth.: HAR §11-60.1-9, §11-60.1-90)

21. The permittee shall submit fees in accordance with HAR, Chapter 11-60.1, Subchapter 6.

(Auth.: HAR §11-60.1-90)

22. All certifications shall be in accordance with HAR, Section 11-60.1-4.

(Auth.: HAR §11-60.1-4, HAR §11-60.1-90)

23. The permittee shall allow the Director of Health, the Regional Administrator for the U.S. EPA and/or an authorized representative, upon presentation of credentials or other documents required by law:

- a. To enter the premises where a source is located or emission-related activity is conducted, or where records must be kept under the conditions of this permit and inspect at reasonable times all facilities, equipment, including monitoring and air pollution control equipment, practices, operations, or records covered under the terms and conditions of this permit and request copies of records or copy records required by this permit; and
- b. To sample or monitor at reasonable times substances or parameters to ensure compliance with this permit or applicable requirements of HAR, Chapter 11-60.1.

(Auth.: HAR §11-60.1-11, §11-60.1-90)

24. Within thirty (30) days of **permanent discontinuance of the construction, modification, relocation, or operation of a covered source covered by this permit**, the discontinuance shall be reported in writing to the Department of Health by a responsible official of the source.

(Auth.: HAR §11-60.1-8; SIP §11-60-10)²

25. Each permit renewal application shall be submitted to the Department of Health and the U.S. EPA, Region 9, no less than twelve (12) months and no more than eighteen (18) months prior to the permit expiration date. The Director may allow a permit renewal application to be submitted no less than six (6) months prior to the permit expiration date, if the Director determines that there is reasonable justification.

(Auth.: HAR §11-60.1-101, 40 CFR §70.5(a)(1)(iii))¹

26. The terms and conditions included in this permit, including any provision designed to limit a source's potential to emit, are federally enforceable unless such terms, conditions, or requirements are specifically designated as not federally enforceable.

(Auth.: HAR §11-60.1-93)

27. The compliance plan and compliance certification submittal requirements shall be in accordance with HAR, Sections 11-60.1-85 and 11-60.1-86. As specified in HAR, Section 11-60.1-86, the compliance certification shall be submitted to the Department of

Health and the U.S. EPA, Region 9, once per year, or more frequently as set by any applicable requirement.

(Auth.: HAR §11-60.1-90)

28. **Any document (including reports) required to be submitted by this permit shall be certified as being true, accurate, and complete by a responsible official in accordance with HAR, Sections 11-60.1-1 and 11-60.1-4, and shall be mailed to the following address:**

**Clean Air Branch
Environmental Management Division
Hawaii Department of Health
919 Ala Moana Boulevard, Room 203
Honolulu, HI 96814**

Upon request and as required by this permit, all correspondence to the State of Hawaii Department of Health associated with this Covered Source Permit shall have duplicate copies forwarded to:

**Chief
Permits Office, (Attention: Air-3)
Air Division
U.S. Environmental Protection Agency
Region 9
75 Hawthorne Street
San Francisco, CA 94105**

(Auth.: HAR §11-60.1-4, §11-60.1-90)

29. To determine compliance with submittal deadlines for time-sensitive documents, the postmark date of the document shall be used. If the document was hand-delivered, the date received ("stamped") at the Clean Air Branch shall be used to determine the submittal date.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

¹ The citations to the Code of Federal Regulations (CFR) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

² The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

PROPOSED

ATTACHMENT IIA: SPECIAL CONDITIONS FOR THE BOILERS COVERED SOURCE PERMIT NO. 0239-01-C

Issuance Date:

Expiration Date:

In addition to the standard conditions of the Covered Source Permit, the following special conditions shall apply to the permitted facility:

Section A. Equipment Description

1. This permit encompasses the following equipment:

HECO

<u>Unit No.</u>	<u>Description (power outputs are nominal and the units are situated from west to east)</u>
3	49 MW Babcock and Wilcox Boiler (576 MMBtu/hr, serial no. RB-43, built in 1947)
4	49 MW Babcock and Wilcox Boiler (585 MMBtu/hr, serial no. RB-92, built in 1950)
5	57 MW Babcock and Wilcox Boiler (633 MMBtu/hr, serial no. RB-324, built in 1958)
6	58 MW Babcock and Wilcox Boiler (637 MMBtu/hr, serial no. RB-328, built in 1961)
8	92 MW Combustion Engineering Boiler (923 MMBtu/hr, serial no. 20694, built in 1967)
7	92 MW Combustion Engineering Boiler (922 MMBtu/hr, serial no. 20177, built in 1965)

Note: The boilers may be fired on fuel oil No. 6 and diesel fuel oil No. 2, and specification (spec) used oil. For ignition, boiler unit nos. 3 to 6 use propane while unit nos. 7 and 8 use diesel fuel oil No. 2.

(Auth.: HAR §11-60.1-3)

2. The permittee shall permanently attach an identification tag or name plate on each boiler, which identifies the model no., serial no., and manufacturer. The identification tag or name plate shall be attached to the equipment at a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Federal Regulations

1. The boilers are subject to the provisions of the following federal regulations:
 - a. 40 Code of Federal Regulations (CFR) Part 63, National Emission Standards for Hazardous Air Pollutants for Source Categories (Maximum Achievable Control Technology (MACT) Standards), Subpart A, General Provisions; and

- b. 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants for Source Categories (Maximum Achievable Control Technology (MACT) Standards), Subpart UUUUU, National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174, 40 CFR §63.1, §63.9981)¹

- 2. The permittee must comply with 40 CFR Part 63, Subpart UUUUU no later than April 16, 2015.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174, 40 CFR §63.9984)¹

Section C. Operational and Emission Limitations

1. Fuel Usage and Specifications

The boilers shall be fired on fuel oil No. 6 or diesel fuel oil No. 2 with a maximum sulfur content not to exceed 0.5 percent by weight, alternative fuels allowed in Attachment IIA, Special Condition Nos. C.2 and C.4.a, or any combination thereof. Propane and diesel fuel oil No. 2 may be used for boiler ignition.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-38, §11-60.1-90)

2. Specification (Spec) Used Oil

- a. The permit conditions prescribed herein may be revised at any time by the Department of Health to conform to any state or federal promulgated rules on used oil.
- b. This permit does not release the permittee from compliance with all applicable state and federal rules and regulations on the handling, transporting, storing and burning of used oil.
- c. The used oil shall consist of used oil, mixtures of used oil, and materials containing used oil in accordance with HAR Title 11, Chapter 279. The used oil shall be obtained from equipment owned, operated, or maintained by the permittee.
- d. Used oil may also be obtained from other sources, provided a written notification identifying the new source is submitted to the Department of Health, and approved, prior to the acceptance of the used oil. An analysis must accompany the delivery of each batch of used oil.
- e. The permittee shall not burn more than 50,000 gallons of used oil in any rolling twelve (12) month period.
- f. This permit does not authorize the permittee to burn hazardous waste. The permittee shall not burn the used oil if declared or determined to be a hazardous waste.
- g. The following constituents/properties of the specification used oil shall not exceed the specified limits listed below:

<u>Constituent/Property</u>	<u>Allowable Limit</u>
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000 ppm maximum
Sulfur	0.5% maximum by weight
Flash Point	100°F minimum
Polychlorinated Biphenyls (PCB)	< 2 ppm

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-38, §11-60.1-90; 40 CFR §279.11, §761.20(e))¹

3. Opacity

The boilers shall not exhibit visible emissions of forty (40) percent or greater for any six (6) minute averaging period, except as follows: during start-up, shutdown, or equipment breakdown, the boilers may exhibit visible emissions greater than forty (40) but not exceeding sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minutes.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90, SIP §11-60-24)²

4. Alternate Operating Scenario

- a. Upon receiving written approval from the Department of Health, the permittee may fire the boilers on an alternate fuel (including, but not limited to, biofuel) if burning the fuel does not require PSD review, or compliance with NSPS or NESHAP requirements that would not otherwise apply, or compliance with a requirement that is different from those specified in this permit. Requests for burning an alternate fuel shall be in accordance with Attachment IIA, Special Condition No. E.7.a.
- b. Upon receiving written approval from the Department of Health, the permittee may use specific fuel additives to control algae, lubricity, improve combustion, inhibit corrosion, or other reasons. Request for using fuel additives shall be in accordance with Attachment IIA, Special Condition No. E.7.b.
- c. Alternate operating scenario records shall be maintained in accordance with Attachment IIA, Special Condition No. D.4.
- d. The terms and conditions under each operating scenario shall meet all applicable requirements, including the special conditions of this permit.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

Section D. Monitoring and Recordkeeping Requirements

1. Total Fuel Usage and Specification

- a. The permittee shall maintain records of fuel deliveries identifying the delivery dates and the type and amount of fuel received.
- b. The permittee shall maintain records on the sulfur content of the fuel oil No. 6 and diesel fuel oil No. 2 fired by the boilers. The sulfur content of the fuel oil No. 6 and diesel fuel oil No. 2 fired in the boilers shall be determined by sampling the unit's storage tank after each addition of fuel to the storage tank or by sampling each shipment or delivery (e.g., the supplier's storage container holding the fuel, ship load, barge load, group of trucks, discrete purchase of fuel through a pipeline, etc.) prior to combining it with the existing fuel supply. The fuel analysis may be performed by the permittee, fuel supplier, or other qualified third party.
- c. A representative sample shall be taken of the used oil prior to burning in the boilers. Each sample shall be submitted in a timely manner to a qualified laboratory and an analysis obtained for the constituents/properties for which limits are specified in Attachment IIA, Special Condition No. C.2. The laboratory analysis of the collected used oil shall be obtained prior to blending it with any fuel oil.
- d. The following records shall be maintained on the used oil consumption:
 - 1) The supplier, date, and amount for each delivery of used oil received; and
 - 2) The sample date, amount of used oil the sample represents, date of used oil analysis, and reports of the used oil analysis.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

2. Inspection, Maintenance, and Repair Log

The permittee shall maintain records on inspections, maintenance, and any repair work conducted on the boilers. At a minimum, these records shall include: the date of the inspection, maintenance, or repair work; name and title of the personnel performing the inspection, maintenance or repair work; a short description of the action and/or any such repair work; and a description of the part(s) inspected or repaired.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

3. Visible Emissions (VE)

The permittee shall conduct **monthly** (*calendar month*) VE observations for each boiler subject to opacity limits by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9 or U.S. EPA approved equivalent methods, or alternate methods with prior written approval from the Department of Health. For each month, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the *Visible Emissions Form Requirements*.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90)

4. Alternate Operating Scenarios

- a. The permittee shall contemporaneously with making a change from one operating scenario to another in accordance with Attachment IIA, Special Condition No. C.4, record in a log, the scenario under which it is operating.
- b. The permittee shall maintain all records corresponding to the implementation of an alternate operating scenario specified in Attachment IIA, Special Condition No. C.4.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

5. Records

All records, including supporting information, shall be maintained for **at least five (5) years** from the date of required monitoring, test, report, or application. Supporting information includes all maintenance, inspection, and repair records, and copies of reports required by this permit. These records shall be in a permanent form suitable for inspection and made available to the Department of Health or their representative upon request.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

Section E. Notification and Reporting Requirements

1. Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 17 and 24, respectively:

- a. *Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and*
- b. *Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.*

(Auth.: HAR §11-60.1-8, §11-60.1-15, §11-60.1-16, §11-60.1-90; 40 CFR §60.48c(a); SIP §11-60-10, §11-60-16)^{1,2}

2. Deviations

The permittee shall report (in writing) **within five (5) working days** any deviations from the permit requirements, including those attributable to upset conditions, the probable cause of such deviations and any corrective actions or preventive measures taken. Corrective actions may include a requirement for stack testing, monitoring, or the implementation of a corrective action plan.

(Auth.: HAR §11-60.1-3, §11-60.1-15, §11-60.1-16, §11-60.1-90)

3. Monitoring

The permittee shall submit **semi-annually**, the attached *Monitoring Report Forms: Fuel Certification; Specification Used Oil; and Opacity Exceedances*, or equivalent forms, to the Department of Health. These reports shall be submitted **within sixty (60) days after the end of each semi-annual calendar period** (January 1 to June 30 and July 1 to December 31), and shall be signed and dated by a responsible official.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

4. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA, Region 9, the attached *Compliance Certification Form*, or an equivalent form, pursuant to HAR §11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

- a. The identification of each term or condition of the permit that is the basis of the certification;
- b. The compliance status;
- c. Whether compliance was continuous or intermittent;
- d. The methods used for determining the compliance status of the source currently and over the reporting period;
- e. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act;
- f. Brief description of any deviations including identifying as possible exceptions to compliance any periods during which compliance is required and in which the excursion or exceedance as defined in 40 CFR 64 occurred; and
- g. Any additional information as required by the Department of Health including information to determine compliance.

The compliance certification shall be submitted **within sixty (60) days after the end of each calendar year**, and shall be signed and dated by a responsible official.

Upon written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

5. Annual Emissions

- a. As required by *Attachment IV: Annual Emissions Reporting Requirements* and in conjunction with the requirements of *Attachment III: Annual Fee Requirements*, the

permittee shall report **annually** the total tons/yr emitted of each regulated air pollutant, including hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days following the end of each calendar year**. The completion and submittal of the *Annual Emissions Report Form: Boilers and Combustion Turbines*, or an equivalent form, shall be used in reporting fuel usage.

- b. Upon the written request of the permittee, the deadline for reporting of annual emissions may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

6. The Department may at any time require the permittee to install, operate, and maintain continuous emission monitors, or conduct additional stack testing, or ambient air monitoring.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

7. Alternate Operating Scenarios

- a. The permittee shall submit a written request and receive prior written approval from the Department of Health for firing the boilers on an alternate fuel. The written request shall include, but not be limited to, the following:
 - i. The type of fuel proposed;
 - ii. Reason for using the alternate fuel;
 - iii. Emission rates for burning the alternate fuel;
 - iv. Documentation that burning the alternate fuel will not constitute a major modification subject to PSD review (e.g., an actual-to-potential applicability test; an actual-to-projected-actual applicability test; or documentation establishing that burning the alternate fuel would not involve a physical change or change in method of operation);
 - v. Documentation that burning the alternate fuel will not constitute a modification that would require compliance with NSPS or NESHAP requirements that would not otherwise apply;
 - vi. Documentation that burning the alternate fuel will not require compliance with an applicable requirement that is different from those specified in this permit; and
 - vii. If claiming the fuel switch does not constitute a modification because the boiler was capable of accommodating the alternate fuel prior to a rule's effective date (e.g., before January 6, 1975 for the PSD rules), the permittee shall provide, at a minimum, documentation that:
 - (1) The boiler was physically in existence before the rule's effective date;
 - (2) The alternate fuel was part of the original unit's design;
 - (3) The boiler has had the continuous ability to burn such fuel; and
 - (4) The boiler was capable of accommodating the use of the alternate fuel without making changes to the unit or the installation.

- b. For written requests to use fuel additives, the permittee shall, at a minimum, provide the Department of Health the specifications of the fuel additive(s), maximum expected emission rates of any criteria or non-criteria pollutant, certification that corresponding emission rates will not exceed permitted rates, and any other information requested by the Department of Health. The Department of Health may provide a conditional approval to impose additional monitoring, testing, record keeping, and reporting requirements to ensure the use of the fuel additive is in compliance with the applicable requirements.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

Section F. Agency Notification

Any document (including reports) required to be submitted by this permit shall be done in accordance with Attachment I, Standard Condition 28.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

¹The citation to the Code of Federal Regulations (CFR) identified under a particular condition, indicates that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

²The citation to the State Implementation Plan (SIP) identified under a particular condition, indicates that the permit condition complies with the specified provision(s) of the SIP.

PROPOSED

ATTACHMENT IIB: SPECIAL CONDITIONS FOR THE COMBUSTION TURBINES COVERED SOURCE PERMIT NO. 0239-01-C

Issuance Date:

Expiration Date:

In addition to the standard conditions of the Covered Source Permit, the following special conditions shall apply to the permitted facility:

Section A. Equipment Description

1. This permit encompasses the following equipment:

HECO

Unit No. Description (power outputs are nominal and the units are situated from west to east)

- | | |
|----|---|
| 10 | 50 MW General Electric MS7000 Combustion Turbine (682 MMBtu/hr, serial no. 217725, built in 1973) |
| 9 | 52 MW General Electric MS7000 Combustion Turbine (691 MMBtu/hr, serial no. 217724, built in 1973) |

(Auth.: HAR §11-60.1-3)

2. The permittee shall permanently attach an identification tag or name plate on each combustion turbine, which identifies the model no., serial no., and manufacturer. The identification tag or name plate shall be attached to the equipment at a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Operational and Emission Limitations

1. Fuel Usage and Specifications

The combustion turbines shall be fired on diesel fuel oil No. 2 with a maximum sulfur content not to exceed 0.5 percent by weight, alternative fuel allowed in Attachment IIB, Special Condition No. B.5.a, or any combination thereof.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-38, §11-60.1-90)

2. Opacity

The combustion turbines shall not exhibit visible emissions of twenty (20) percent or greater for any six (6) minute averaging period, except as follows: during start-up, shutdown, or equipment breakdown, the combustion turbines may exhibit visible emissions greater than twenty (20) but not exceeding sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minutes.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90, SIP §11-60-24)²

3. Startup and Shutdown

- a. The startup sequence for any combustion turbine generator shall not exceed thirty (30) minutes. A startup sequence shall be from the time the combustion turbine generator start button is pressed until the time the combustion turbine generator is initially brought up to ten (10) percent of nominal load.
- b. The shutdown sequence for any combustion turbine generator shall not exceed thirty (30) minutes. A shutdown sequence shall be from the time the combustion turbine generator is below ten (10) percent of nominal load, until fuel use at the combustion turbine generator ceases.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

4. Minimum Operating Load

The combustion turbine generators shall not operate below ten (10) percent of nominal load except during equipment startup, shutdown, maintenance, or testing.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

5. Alternate Operating Scenario

- a. Upon receiving written approval from the Department of Health, the permittee may fire the combustion turbines on an alternate fuel (including, but not limited to, biofuel) if burning the fuel does not require PSD review, or compliance with NSPS or NESHAP requirements that would not otherwise apply, or compliance with a requirement that is different from those specified in this permit. Requests for burning an alternate fuel shall be in accordance with Attachment IIA, Special Condition No. D.7.a.
- b. Upon receiving written approval from the Department of Health, the permittee may use specific fuel additives to control algae, lubricity, improve combustion, inhibit corrosion, or other reasons. Request for using fuel additives shall be in accordance with Attachment IIA, Special Condition No. D.7.b.
- c. Alternate operating scenario records shall be maintained in accordance with Attachment IIA, Special Condition No. C.5.
- d. The terms and conditions under each operating scenario shall meet all applicable requirements, including the special conditions of this permit.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

Section C. Monitoring and Recordkeeping Requirements

1. Total Fuel Usage and Specification

- a. The permittee shall maintain records of fuel deliveries identifying the delivery dates and the type and amount of fuel received.
- b. The permittee shall maintain records on the sulfur content of the fuel fired by the combustion turbine generators. The sulfur content of the fuel shall be determined by sampling the unit's storage tank after each addition of fuel to the storage tank or by sampling each shipment or delivery (e.g., the supplier's storage container holding the fuel, ship load, barge load, group of trucks, discrete purchase of fuel through a pipeline, etc.) prior to combining it with the existing fuel supply. The fuel analysis may be performed by the permittee, fuel supplier, or other qualified third party.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

2. The permittee shall monitor and maintain records of the following combustion turbine operations:

- a. Date and time of startups and shutdowns, and their durations; and
- b. Operating loads of the combustion turbines at all times.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

3. Inspection, Maintenance, and Repair Log

The permittee shall maintain records on inspections, maintenance, and any repair work conducted on the combustion turbines. At a minimum, these records shall include: the date of the inspection, maintenance, or repair work; name and title of the personnel performing the inspection, maintenance, or repair work; a short description of the action and/or any such repair work; and a description of the part(s) inspected or repaired.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

4. Visible Emissions (VE)

The permittee shall conduct **monthly** (*calendar month*) VE observations for each combustion turbine subject to opacity limits by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9 or U.S. EPA approved equivalent methods, or alternate methods with prior written approval from the Department of Health. For each month, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the *Visible Emissions Form Requirements*.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90)

5. Alternate Operating Scenarios

- a. The permittee shall contemporaneously with making a change from one operating scenario to another in accordance with Attachment IIB, Special Condition No. B.5, record in a log, the scenario under which it is operating.
- b. The permittee shall maintain all records corresponding to the implementation of an alternate operating scenario specified in Attachment IIB, Special Condition No. B.5.
- c. The reason for operating the combustion turbine generators, units 9 and 10, above peak load shall be clearly documented, with the event's date, time, duration, and operating load.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

6. Records

All records, including supporting information, shall be maintained for **at least five (5) years** from the date of required monitoring, test, report, or application. Supporting information includes all maintenance, inspection, and repair records, and copies of reports required by this permit. These records shall be in a permanent form suitable for inspection and made available to the Department of Health or their representative upon request.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

Section D. Notification and Reporting Requirements

1. Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 17 and 24, respectively:

- a. *Emissions of air pollutants in violation of HAR, Chapter 11-60.1 of this permit (excluding technology-based emission exceedances due to emergencies); and*
- b. *Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.*

(Auth.: HAR §11-60.1-8, §11-60.1-15, §11-60.1-16, §11-60.1-90; 40 CFR §60.48c(a); SIP §11-60-10, §11-60-16)^{1, 2}

2. Deviations

The permittee shall report (in writing) **within five (5) working days** any deviations from the permit requirements, including those attributable to upset conditions, the probable cause of such deviations and any corrective actions or preventive measures taken. Corrective actions may include a requirement for stack testing, monitoring, or the implementation of a corrective action plan.

(Auth.: HAR §11-60.1-3, §11-60.1-15, §11-60.1-16, §11-60.1-90)

3. Monitoring

The permittee shall submit **semi-annually**, the attached *Monitoring Report Forms: Fuel Certification; Opacity Exceedances; and Combustion Turbines*, or equivalent forms, to the Department of Health. These reports shall be submitted **within sixty (60) days after the end of each semi-annual calendar period** (January 1 to June 30 and July 1 to December 31), and shall be signed and dated by a responsible official.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

4. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA, Region 9, the attached *Compliance Certification Form*, or an equivalent form, pursuant to HAR §11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

- a. The identification of each term or condition of the permit that is the basis of the certification;
- b. The compliance status;
- c. Whether compliance was continuous or intermittent;
- d. The methods used for determining the compliance status of the source currently and over the reporting period;
- e. Any additional information indicating the source=s compliance status with any applicable enhanced monitoring and compliance certification including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act;
- f. Brief description of any deviations including identifying as possible exceptions to compliance any periods during which compliance is required and in which the excursion or exceedance as defined in 40 CFR 64 occurred; and
- g. Any additional information as required by the Department of Health including information to determine compliance.

The compliance certification shall be submitted **within sixty (60) days after the end of each calendar year**, and shall be signed and dated by a responsible official.

Upon written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

5. Annual Emissions

- a. As required by *Attachment IV: Annual Emissions Reporting Requirements* and in conjunction with the requirements of *Attachment III: Annual Fee Requirements*, the permittee shall report **annually** the total tons/yr emitted of each regulated air pollutant, including hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days following the end of each calendar year**. The completion and submittal of the *Annual Emission Report Form: Boilers and Combustion Turbines*, or an equivalent form, shall be used in reporting fuel usage.
- b. Upon the written request of the permittee, the deadline for reporting of annual emissions may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

6. The Department may at any time require the permittee to install, operate, and maintain continuous emission monitors, or conduct additional stack testing, or ambient air monitoring.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

7. Alternate Operating Scenarios

- a. The permittee shall submit a written request and receive prior written approval from the Department of Health for firing the combustion turbines on an alternate fuel. The written request shall include, but not be limited to, the following:
 - i. The type of fuel proposed;
 - ii. Reason for using the alternate fuel;
 - iii. Emission rates for burning the alternate fuel;
 - iv. Documentation that burning the alternate fuel will not constitute a major modification subject to PSD review (e.g., an actual-to-potential applicability test; an actual-to-projected-actual applicability test; or documentation establishing that burning the alternate fuel would not involve a physical change or change in method of operation);
 - v. Documentation that burning the alternate fuel will not constitute a modification that would require compliance with NSPS or NESHAP requirements that would not otherwise apply;
 - vi. Documentation that burning the alternate fuel will not require compliance with an applicable requirement that is different from those specified in this permit; and
 - vii. If claiming the fuel switch does not constitute a modification because the combustion turbine was capable of accommodating the alternate fuel prior to a rule's effective date (e.g., before January 6, 1975 for the PSD rules), the permittee shall provide, at a minimum, documentation that:

- (1) The combustion turbine was physically in existence before the rule's effective date;
 - (2) The alternate fuel was part of the original unit's design;
 - (3) The combustion turbine has had the continuous ability to burn such fuel; and
 - (4) The combustion turbine was capable of accommodating the use of the alternate fuel without making changes to the unit or the installation.
- b. For written requests to use fuel additives, the permittee shall, at a minimum, provide the Department of Health the specifications of the fuel additive(s), maximum expected emission rates of any criteria or non-criteria pollutant, certification that corresponding emission rates will not exceed permitted rates, and any other information requested by the Department of Health. The Department of Health may provide a conditional approval to impose additional monitoring, testing, record keeping, and reporting requirements to ensure the use of the fuel additive is in compliance with the applicable requirements.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

Section E. Agency Notification

Any document (including reports) required to be submitted by this permit shall be done in accordance with Attachment I, Standard Condition 28.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

¹The citation to the Code of Federal Regulations (CFR) identified under a particular condition, indicates that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

²The citation to the State Implementation Plan (SIP) identified under a particular condition, indicates that the permit condition complies with the specified provision(s) of the SIP.

PROPOSED

**ATTACHMENT II – INSIG
SPECIAL CONDITIONS – INSIGNIFICANT ACTIVITIES
COVERED SOURCE PERMIT NO. 0239-01-C**

Issuance Date:

Expiration Date:

In addition to the Standard Conditions of the Covered Source Permit, the following Special Conditions shall apply to the permitted facility:

Section A. Equipment Description

This attachment encompasses insignificant activities listed in HAR, §11-60.1-82(f) and (g) for which provisions of this permit and HAR, Subchapter 2, General Prohibitions apply.

(Auth.: HAR §11-60.1-3)

Section B. Operational Limitations

1. The permittee shall take measures to operate applicable insignificant activities in accordance with the provisions of HAR, Subchapter 2 for visible emissions, fugitive dust, incineration, process industries, sulfur oxides from fuel combustion, storage of volatile organic compounds, volatile organic compound water separation, pump and compressor requirements, and waste gas disposal.

(Auth.: HAR §11-60.1-3, §11-60.1-82, §11-60.1-90)

2. The Department of Health may at any time require the permittee to further abate emissions if an inspection indicates poor or insufficient controls.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-82, §11-60.1-90)

Section C. Monitoring and Recordkeeping Requirements

1. The Department of Health reserves the right to require monitoring, recordkeeping, or testing of any insignificant activity to determine compliance with the applicable requirements.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

2. All records shall be maintained for at least five (5) years from the date of any required monitoring, recordkeeping, testing, or reporting. These records shall be in a permanent form suitable for inspection and made available to the Department of Health or their authorized representative upon request.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

Section D. Notification and Reporting

Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA, Region 9, the attached *Compliance Certification Form*, or an equivalent form, pursuant to HAR §11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

1. The identification of each term or condition of the permit that is the basis of the certification;
2. The compliance status;
3. Whether compliance was continuous or intermittent;
4. The methods used for determining the compliance status of the source currently and over the reporting period;
5. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act;
6. Brief description of any deviations including identifying as possible exceptions to compliance any periods during which compliance is required and in which the excursion or exceedances as defined in 40 CFR 64 occurred; and
7. Any additional information as required by the Department of Health including information to determine compliance.

The compliance certification shall be submitted **within sixty (60) days** after the end of each calendar year, and shall be signed and dated by a responsible official.

Upon written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.

In lieu of addressing each emission unit as specified in *Compliance Certification Form*, the permittee may address insignificant activities as a single unit provided compliance is met with all applicable requirements. If compliance is not totally attained, the permittee shall identify the specific insignificant activity and provide the details associated with the noncompliance.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

Section E. Agency Notification

Any document (including reports) required to be submitted by this Covered Source Permit shall be done in accordance with Attachment I, Standard Condition No. 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

**ATTACHMENT III: ANNUAL FEE REQUIREMENTS
COVERED SOURCE PERMIT NO. 0239-01-C**

Issuance Date:

Expiration Date:

The following requirements for the submittal of annual fees are established pursuant to Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1, Air Pollution Control. Should HAR, Chapter 60.1 be revised such that the following requirements are in conflict with the provisions of HAR, Chapter 60.1, the permittee shall comply with the provisions of HAR, Chapter 60.1:

1. Annual fees shall be paid in full:
 - a. Within **sixty (60) days** after the end of each calendar year; and
 - b. Within **thirty (30) days** after the permanent discontinuance of the covered source.
2. The annual fees shall be determined and submitted in accordance with Hawaii Administrative Rules, Chapter 11-60.1, Subchapter 6.
3. The annual emissions data for which the annual fees are based shall accompany the submittal of any annual fees and be submitted on forms furnished by the Department of Health.
4. The annual fees and the emission data shall be mailed to:

**Clean Air Branch
Environmental Management Division
Hawaii Department of Health
919 Ala Moana Boulevard, Room 203
Honolulu, HI 96814**

**ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS
COVERED SOURCE PERMIT NO. 0239-01-C**

Issuance Date:

Expiration Date:

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the nature and amounts of emissions.

1. Complete the attached form(s):

Annual Emissions Report Form: Boilers and Combustion Turbines

2. The reporting period shall be from January 1 to December 31 of each year. All reports shall be submitted to the Department of Health within **sixty (60) days** after the end of each calendar year and shall be mailed to the following address:

**Clean Air Branch
Environmental Management Division
Hawaii Department of Health
919 Ala Moana Boulevard, Room 203
Honolulu, HI 96814**

3. The permittee shall retain the information submitted, including all emission calculations. These records shall be in a permanent form suitable for inspection, retained for a minimum of five (5) years, and made available to the Department of Health upon request.
4. Any information submitted to the Department of Health without a request for confidentiality shall be considered public record.
5. In accordance with HAR, Section 11-60.1-14, the permittee may request confidential treatment of specific information, including information concerning secret processes or methods of manufacture, by submitting a written request to the Director and clearly identifying the specific information that is to be accorded confidential treatment.

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0239-01-C
PAGE 1 OF 4**

Issuance Date: _____

Expiration Date: _____

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following certification at least annually, or more frequently as requested by the Department.

(Make Copies of the Compliance Certification Form for Future Use)

For Period: _____ Date: _____

Company/Facility Name: _____

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by Department of Health as public record. I further state that I will assume responsibility for the construction, modification, or operation of the source in accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, and any permit issued thereof.

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0239-01-C
(CONTINUED, PAGE 2 OF 4)**

Issuance Date:**Expiration Date:**

The purpose of this form is to evaluate whether or not the facility was in compliance with the permit terms and conditions during the covered period. If there were any deviations to the permit terms and conditions during the covered period, the deviation(s) shall be certified as *intermittent compliance* for the particular permit term(s) or condition(s). Deviations include failure to monitor, record, report, or collect the minimum data required by the permit to show compliance. In the absence of any deviation, the particular permit term(s) or condition(s) may be certified as *continuous compliance*.

Instructions:

Please certify Sections A, B, and C below for continuous or intermittent compliance. Sections A and B are to be certified as a group of permit conditions. Section C shall be certified individually for each operational and emissions limit condition as listed in the Special Conditions section of the permit (list all applicable equipment for each condition). Any deviations shall also be listed individually and described in Section D. The facility may substitute its own generated form in verbatim for Sections C and D.

A. Attachment I, Standard Conditions

<u>Permit term/condition</u>	<u>Equipment</u>	<u>Compliance</u>
All standard conditions	All Equipment listed in the permit	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent

B. Special Conditions - Monitoring, Recordkeeping, Reporting, Testing, and INSIG

<u>Permit term/condition</u>	<u>Equipment</u>	<u>Compliance</u>
All monitoring conditions	All Equipment listed in the permit	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
<u>Permit term/condition</u>	<u>Equipment</u>	<u>Compliance</u>
All recordkeeping conditions	All Equipment listed in the permit	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
<u>Permit term/condition</u>	<u>Equipment</u>	<u>Compliance</u>
All reporting conditions	All Equipment listed in the permit	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
<u>Permit term/condition</u>	<u>Equipment</u>	<u>Compliance</u>
All testing conditions	All Equipment listed in the permit	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
<u>Permit term/condition</u>	<u>Equipment</u>	<u>Compliance</u>
All INSIG conditions	All Equipment listed in the permit	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0239-01-C
(CONTINUED, PAGE 3 OF 4)**

Issuance Date:

Expiration Date:

C. Special Conditions - Operational and Emissions Limitations

Each permit term/condition shall be identified in chronological order using attachment and section numbers (e.g., Attachment II, B.1, Attachment IIA, Special Condition No. B.1.f, etc.). Each equipment shall be identified using the description stated in Section A of the Special Conditions (e.g., unit no., model no., serial no., etc.). Check all methods (as required by permit) used to determine the compliance status of the respective permit term/condition.

<u>Permit term/condition</u>	<u>Equipment</u>	<u>Method</u>	<u>Compliance</u>
		<input type="checkbox"/> monitoring <input type="checkbox"/> recordkeeping <input type="checkbox"/> reporting <input type="checkbox"/> testing <input type="checkbox"/> none of the above	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
		<input type="checkbox"/> monitoring <input type="checkbox"/> recordkeeping <input type="checkbox"/> reporting <input type="checkbox"/> testing <input type="checkbox"/> none of the above	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
		<input type="checkbox"/> monitoring <input type="checkbox"/> recordkeeping <input type="checkbox"/> reporting <input type="checkbox"/> testing <input type="checkbox"/> none of the above	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
		<input type="checkbox"/> monitoring <input type="checkbox"/> recordkeeping <input type="checkbox"/> reporting <input type="checkbox"/> testing <input type="checkbox"/> none of the above	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
		<input type="checkbox"/> monitoring <input type="checkbox"/> recordkeeping <input type="checkbox"/> reporting <input type="checkbox"/> testing <input type="checkbox"/> none of the above	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
		<input type="checkbox"/> monitoring <input type="checkbox"/> recordkeeping <input type="checkbox"/> reporting <input type="checkbox"/> testing <input type="checkbox"/> none of the above	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent

(Make Additional Copies if Needed)

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0239-01-C
(CONTINUED, PAGE 4 OF 4)**

Issuance Date:

Expiration Date:

D. Deviations

<u>Permit Term/ Condition</u>	<u>Equipment / Brief Summary of Deviation*</u>	<u>Deviation Period time (am/pm) & date (mo/day/yr)</u>	<u>Date of Written Deviation Report to DOH (mo/day/yr)</u>
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	

*Identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR 64 occurred.

(Make Additional Copies if Needed)

PROPOSED

**MONITORING REPORT FORM
OPACITY EXCEEDANCES
COVERED SOURCE PERMIT NO. 0239-01-C**

Issuance Date:**Expiration Date:**

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information **semi-annually**:

(Make Copies for Future Use)

For Period: _____ Date: _____

Company/Facility Name: _____

Facility Name: _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate, and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature):_____

Visible Emissions:

Report the following on the lines provided below: all date(s) and six (6) minute average opacity reading(s) which the opacity limit was exceeded during the monthly observations; or if there were no exceedances during the monthly observations, then write "no exceedances" in the comment column.

[illegible]

**VISIBLE EMISSIONS FORM REQUIREMENTS
STATE OF HAWAII
COVERED SOURCE PERMIT NO. 0239-01-C**

Issuance Date:**Expiration Date:**

The **Visible Emissions (VE) Form** shall be completed **monthly** (*each calendar month*) for each equipment subject to opacity limits in accordance with 40 CFR Part 60, Appendix A, Method 9. At least **annually** (*calendar year*), VE observation shall be conducted for each equipment subject to opacity limits by a certified reader in accordance with Method 9. The VE Form shall be completed as follows:

1. VE observations shall take place during the day only. The opacity shall be noted in five (5) percent increments (e.g., 25%).
2. Orient the sun within a 140 degree sector to your back. Provide a source layout sketch on the VE Form using the symbols as shown.
3. For VE observations of stacks, stand at least three (3) stack heights but not more than a quarter mile from the stack.
4. For VE observations of fugitive emissions from crushing and screening plants, stand at least 4.57 meters (15 feet) from the visible emissions source, but not more than a quarter mile from the visible emission source.
5. Two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each stack or emission point.
6. The six (6) minute average opacity reading shall be calculated for each observation.
7. If possible, the observations shall be performed as follows:
 - a. Read from where the line of sight is at right angles to the wind direction.
 - b. The line of sight shall not include more than one (1) plume at a time.
 - c. Read at the point in the plume with the greatest opacity (without condensed water vapor), ideally while the plume is no wider than the stack diameter.
 - d. Read the plume at fifteen (15) second intervals only. Do not read continuously.
 - e. The equipment shall be operating at the maximum permitted capacity.
8. If the equipment was shut-down for that period, briefly explain the reason for shut-down in the comment column.

The permittee shall retain the completed VE Forms for recordkeeping. These records shall be in a permanent form suitable for inspection, retained for a minimum of five (5) years, and made available to the Department of Health, or their representative upon request.

Any required initial and annual performance test performed in accordance with Method 9 by a certified reader shall satisfy the respective equipment's VE monitoring requirements for the month the performance test is performed.

PROPOSED

VISIBLE EMISSIONS FORM
COVERED SOURCE PERMIT NO. 0239-01-C

Issuance Date:

Expiration Date:

(Make Copies for Future Use for Each Stack or Emission Point)

Company Name: _____



For stacks, describe equipment and fuel: _____

For fugitive emissions from crushers and screens, describe:

Fugitive emission point: _____

Plant Production (tons/hr): _____

(During observation)

Stack X
Sun 
Wind 

Draw North Arrow

X Emission Point

Observers Position

140

Sun Location Line

Site Conditions:

Emission point or stack height above ground (ft): _____

Emission point or stack distance from observer (ft): _____

Emission color (black or white): _____

Sky conditions (% cloud cover): _____

Wind speed (mph): _____

Temperature (EF): _____

Observer Name: _____

Certified? (Yes/No): _____

Observation Date and Start Time: _____

MINUTES	Seconds				COMMENTS
	0	15	30	45	
1					
2					
3					
4					
5					
6					
Six (6) Minute Average Opacity Reading (%):					

Observation Date and Start Time: _____

MINUTES	Seconds				COMMENTS
	0	15	30	45	
1					
2					
3					
4					
5					
6					
Six (6) Minute Average Opacity Reading (%):					

PROPOSED

MONITORING REPORT FORM FUEL CERTIFICATION COVERED SOURCE PERMIT NO. 0239-01-C

Issuance Date: _____

Expiration Date: _____

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

(Make Copies for Future Use)

For Period: _____ Date: _____

Facility Name: _____

Equipment Location: _____

Equipment Description: _____

Equipment Capacity/Rating (specify units): _____
(Units such as Horsepower, kilowatt, tons/hour, etc.)

Serial/ID Nos.: _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

Equipment Description	Maximum Fuel Sulfur Content (% by weight)		
	Diesel Fuel Oil No. 2	Fuel Oil No. 6	Other Fuel _____
Units 3 through 6			
Units 7 and 8			
Units 9 and 10		NA	

**MONITORING REPORT FORM
SPECIFICATION USED OIL
COVERED SOURCE PERMIT NO. 0239-01-C
(PAGE 1 OF 2)**

Issuance Date: _____**Expiration Date:** _____

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information, semi-annually:

(Make Copies for Future Use)

For Period: _____ Date: _____

Facility Name: _____

Equipment Location: _____

Equipment Description: _____

Equipment Capacity/Rating (specify units): _____
(Units such as Horsepower, kilowatt, tons/hour, etc.)

Serial/ID Nos.: _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

1. Report the total combined monthly specification used oil consumption for boilers 3, 4, 5, 6, 7, and 8 as follows:

MONTH	Boilers 3, 4, 5, 6, 7, 8	
	Total Combined Specification Used Oil Consumption	
	Monthly Basis (gallons)	12-Month Rolling Basis (gallons)
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

**MONITORING REPORT FORM
SPECIFICATION USED OIL
COVERED SOURCE PERMIT NO. 0239-01-C
(CONTINUED, PAGE 2 OF 2)**

Issuance Date:**Expiration Date:**

2. Indicate the highest specification used oil analysis results for the reporting period:

Constituent	Maximum Concentration (ppm)	Notes
Arsenic		
Cadmium		
Chromium		
Lead		
Total Halogens		
Sulfur		
PCBs		

3. Report the minimum flash point in °F for the specification used oil analyzed during the reporting period: _____

**MONITORING REPORT FORM
COMBUSTION TURBINES
COVERED SOURCE PERMIT NO. 0239-01-C
(PAGE 1 OF 2)**

Issuance Date:

Expiration Date:

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

(Make Copies for Future Use)

For Period: _____ Date: _____

Facility Name: _____

Equipment Location: _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

1. Provide the date, time, and duration when startup and shutdown periods exceeded thirty (30) minutes:

[illegible]

**MONITORING REPORT FORM
COMBUSTION TURBINES
COVERED SOURCE PERMIT NO. 0239-01-C
(CONTINUED, PAGE 2 OF 2)**

Issuance Date:**Expiration Date:**[illegible]

2. Provide the date, time, and duration when the minimum load fell below 10% of nominal load during normal operations:

[illegible][illegible]

**ANNUAL EMISSIONS REPORT FORM
BOILERS AND COMBUSTION TURBINES
COVERED SOURCE PERMIT NO. 0239-01-C
(PAGE 1 OF 4)**

Issuance Date: _____**Expiration Date:** _____

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the nature and amounts of emissions.

(Make Copies for Future Use)

For Period: _____ Date: _____

Facility Name: _____

Equipment Location: _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by Department of Health as public record

Responsible Official (Print): _____

TITLE: _____

Responsible Official (Signature): _____

1. Report the boiler fuel consumption as follows:

Boiler 3			
Maximum Design Heat Input Rate/ Serial Number	Fuel Type	Fuel Use	Weighted Average Sulfur Content
		gallons	% by weight
576 MMBtu/hr	Fuel Oil No. 6		
	Diesel Fuel Oil No. 2		
RB-43	Propane		
	Specification Used Oil		

Boiler 4			
Maximum Design Heat Input Rate/ Serial Number	Fuel Type	Fuel Use	Weighted Average Sulfur Content
		gallons	% by weight
585 MMBtu/hr	Fuel Oil No. 6		
	Diesel Fuel Oil No. 2		
RB-92	Propane		
	Specification Used Oil		

PROPOSED**ANNUAL EMISSIONS REPORT FORM
BOILERS AND COMBUSTION TURBINES
COVERED SOURCE PERMIT NO. 0239-01-C
(CONTINUED, PAGE 2 OF 4)****Issuance Date:****Expiration Date:**

Boiler 5			
Maximum Design Heat Input Rate/ Serial Number	Fuel Type	Fuel Use	Weighted Average Sulfur Content
		gallons	% by weight
633 MMBtu/hr	Fuel Oil No. 6		
	Diesel Fuel Oil No. 2		
RB-324	Propane		
	Specification Used Oil		

Boiler 6			
Maximum Design Heat Input Rate/ Serial Number	Fuel Type	Fuel Use	Weighted Average Sulfur Content
		gallons	% by weight
637 MMBtu/hr	Fuel Oil No. 6		
	Diesel Fuel Oil No. 2		
RB-328	Propane		
	Specification Used Oil		

Boiler 7			
Maximum Design Heat Input Rate/ Serial Number	Fuel Type	Fuel Use	Weighted Average Sulfur Content
		gallons	% by weight
922 MMBtu/hr	Fuel Oil No. 6		
	Diesel Fuel Oil No. 2		
20177	Specification Used Oil		

Boiler 8			
Maximum Design Heat Input Rate/ Serial Number	Fuel Type	Fuel Use	Weighted Average Sulfur Content
		gallons	% by weight
923 MMBtu/hr	Fuel Oil No. 6		
	Diesel Fuel Oil No. 2		
20694	Specification Used Oil		

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
BOILERS AND COMBUSTION TURBINES
COVERED SOURCE PERMIT NO. 0239-01-C
(CONTINUED, PAGE 3 OF 4)**

Issuance Date:**Expiration Date:**

2. Report the combustion turbine fuel consumption as follows:

Combustion Turbine 9			
Maximum Design Heat Input Rate/ Serial Number	Fuel Type	Fuel Use	Weighted Average Sulfur Content
		gallons	% by weight
691 MMBtu/hr 217724	Diesel Fuel Oil No. 2		

Combustion Turbine 10			
Maximum Design Heat Input Rate/ Serial Number	Fuel Type	Fuel Use	Weighted Average Sulfur Content
		gallons	% by weight
682 MMBtu/hr 217725	Diesel Fuel Oil No. 2		

3. Report the type of air pollution control, pollutant(s) controlled, and control efficiency:

Boiler 3			
Type of Air Pollution Control	In Use?	Pollutant(s) Controlled	Control Efficiency/ % Reduction

Boiler 4			
Type of Air Pollution Control	In Use?	Pollutant(s) Controlled	Control Efficiency/ % Reduction

Boiler 5			
Type of Air Pollution Control	In Use?	Pollutant(s) Controlled	Control Efficiency/ % Reduction

Boiler 6			
Type of Air Pollution Control	In Use?	Pollutant(s) Controlled	Control Efficiency/ % Reduction

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
BOILERS AND COMBUSTION TURBINES
COVERED SOURCE PERMIT NO. 0239-01-C
(CONTINUED, PAGE 4 OF 4)**

Issuance Date:**Expiration Date:****Boiler 7**

Type of Air Pollution Control	In Use?	Pollutant(s) Controlled	Control Efficiency/ % Reduction

Boiler 8

Type of Air Pollution Control	In Use?	Pollutant(s) Controlled	Control Efficiency/ % Reduction

Combustion Turbine 9

Type of Air Pollution Control	In Use?	Pollutant(s) Controlled	Control Efficiency/ % Reduction

Combustion Turbine 10

Type of Air Pollution Control	In Use?	Pollutant(s) Controlled	Control Efficiency/ % Reduction